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26096	7590	03/20/2006	EXAMINER	
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD SUITE 350 BIRMINGHAM, MI 48009			SCHWARTZ, CHRISTOPHER P	
			ART UNIT	PAPER NUMBER
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**BEFORE THE BOARD OF PATENT APPEALS
AND INTERFERENCES**

Application Number: 10/701,997
Filing Date: November 05, 2003
Appellant(s): WEBER, ARNETT R.

MAILED

MAR 20 2006

GROUP 3600

Theodore W. Olds
For Appellant

SUPPLEMENTAL EXAMINER'S ANSWER

This is in response to the Order returning the undocketed appeal to the examiner filed November 23, 2005.

(1) *Real Party in Interest*

A statement identifying the real party in interest is contained in the brief.

(2) *Related Appeals and Interferences*

A statement identifying the related appeals and interferences which will directly affect or be directly affected by or have a bearing on the decision in the pending appeal is contained in the brief.

(3) *Status of Claims*

The statement of the status of the claims contained in the brief is correct.

(4) *Status of Amendments After Final*

The appellant's statement of the status of amendments after final rejection contained in the brief is correct.

(5) *Summary of Claimed Subject Matter*

The summary of the claimed subject matter contained in the brief is correct.

(6) *Grounds of Rejection to be Reviewed on Appeal*

The Brief contains a concise statement for the ground(s) of rejection presented for review, but presents it in the Argument section.

(7) *Claims Appendix*

The copy of the appealed claims contained in the Appendix to the brief is correct.

(8) *Evidence Relied Upon*

4,443,026	Harrison	4-1984
4,408,751	Dodson et al.	10-1983
6,427,986	Sakai et al.	8-2002
5,722,643	Chamberlin et al.	3-1998

(9) *Grounds of Rejection*

The following ground(s) of rejection are applicable to the appealed claims:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison in view of Sakai et al.

Harrison discloses a leveling system for a vehicle which is able to compensate for changes in temperature using the valves at 25 and 28. See column 1 lines 35-67 and column 2 lines 17-25. Note also the absorber/spring at 21.

Harrison lacks the specifics of the shock absorber/air spring combination.

Sakai et al. is relied upon to show a known general type semi-active type of absorber -spring combination in the several embodiments that can be adjusted dependent upon the "status of the vehicle".

One having ordinary skill in the art at the time of the invention would have found it obvious to have utilized an absorber/spring combination in the system of Harrison as taught by Sakai et al. so that the damping and leveling characteristics of the system may be readily adjusted.

As discussed in the Harrison patent a number of options are provided for compensating for temperature rises which in turn lead to excessive pressure build up in the system. Temperature rises within the reservoirs can cause the air within to be blown off into the atmosphere through the dump or relief valves, dependent upon which option is used (see the discussion in column 3). See column 2 lines 13-24 and column 3 lines 15-19. Note that cooler atmospheric air may be introduced into the system, even if in small amounts. But it seems this amount will depend upon which optional arrangement discussed in column 3 is utilized.

Claims 2-5 rejected under 35 U.S.C. 103(a) as being unpatentable over Harrison in view of Sakai et al. as applied to claim 1 above, and further in view of Chamberlin et al.

Regarding claim 2 Harrison as modified lacks a specific showing of a temperature responsive valve that opens to allow air to leave the air spring upon reaching a predetermined temperature.

However such valves are notoriously well known in the art to compensate for temperature changes and therefore the ride and/or handling characteristics of the vehicle. Chamberlin et al. is relied upon to provide this known teaching in column 1, in light of an understanding of Charles' law.

Accordingly one having ordinary skill in the art at the time of the invention would have found it obvious to have used temperature sensitive valving in the system of Harrison, at 25,28,18 or 22, as modified to adjust the ride and/or handling

characteristics upon a predetermined temperature change in the air/gas pressure in the air chamber.

Regarding claim 3 although the valves of Harrison are pressure sensitive valves, temperature sensitive valves could be employed simply as an alternative equivalent. Note the “cooler” air could come from the atmosphere (even if in small amounts) but also from the low pressure reservoir. The leveling valve could be that at 18, as broadly claimed.

The limitations of claim 4 would simply amount to alternate equivalent choice of design that is known in the art.

Regarding claim 5 in view of the discussion above, these requirements are considered to be met.

(10) Response to Argument

In claim 1 applicants merely claim “a control for avoiding an undesirably high temperature within the air volume by replacing hotter air with cooler air”, a statement of intended use. The device of Harrison, as modified by Sakai et al., is capable of functioning in the claimed manner.

Appellant's argue “All of this misses the point [in] that Harrison's valve is in an air reservoir, not a suspension component”.

First, claim 1 calls for “An air spring and shock absorber **module**”. The rejection is Harrison in view of Sakai et al. As broadly claimed, Harrison in view of Sakai et al. discloses just that—An air spring and shock absorber module. There is no limitation in

the claim that requires "the control" to be incorporated within the air spring/shock absorber, if appellant's argument is understood correctly.

Second, contrary to appellant's argument, Harrison's valve is indeed within "a suspension component". Either of the reservoirs containing the valves 25 or 28 certainly qualify as being a "suspension component".

Appellant's arguments with respect to the functioning of the valves 25,28 and check valves 18 and 22 have been noted. However, the examiner considers these arguments to be largely "condition specific" and interpreted too narrowly because the valves are in fact capable of functioning as appellant has broadly claimed. Upon excessive temperatures, and therefore pressure within a specific chamber, air flows from the source of higher pressure to lower pressure. So lower pressure cooler air from the low pressure reservoir through the high pressure reservoir is certainly capable of entering the air spring, as modified. Air under excessively high pressure or temperature is capable of flowing from the air spring back to the low pressure reservoir, while cooler air can enter through the high pressure reservoir. Notwithstanding this argument, it should be readily apparent the ordinary skilled worker in the art would have found it obvious to have regulated or changed the pressure(s) within the system to desired levels based upon predetermined conditions, such as vehicle ride or handling characteristics, vehicle handling characteristics under excessive loading, and driver preference. Such may be accomplished with the known actively controlled suspension systems (hinted at in Sakai et al. in col. 1) that are controlled by way of the vehicle driver through a switch in the vehicle cabin. This may be alternatively accomplished,

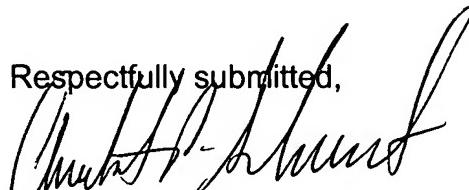
indirectly, simply through the alternate selection and/or replacement of valves
18,22,25,28..

(11) Related Proceeding(s) Appendix

No decision rendered by a court or the Board is identified by the examiner in the Related Appeals and Interferences section of this examiner's answer.

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,


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cps
March 13, 2006

Conferees
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